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PROSPECTUS

OF THE

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California College of Pharmacy.

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DEPARTMENT OF PHARMACY,

UNIVERSITY OF CALIFORNIA.

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THIRD ANNUAL SESSION

(3) 1875,

COMMENCING MARCH 10th.

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SAN FRANCISCO :

H. S. CROCKER & CO., PRINTERS.

1875.



CALIFORNIA  
COLLEGE OF PHARMACY.

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Incorporated Aug. 7th, 1872.

The CALIFORNIA COLLEGE OF PHARMACY being affiliated with the UNIVERSITY OF CALIFORNIA, forms one of the TECHNICAL SCHOOLS contemplated by the framers of the "Organic Act" of the University, each of which is designed to be separate and distinct as regards its peculiar sphere and the work appertaining thereto, but connected by a tie similar to that uniting the States of the Union, occupying in relation to one another distinct and independent positions, yet connected through the general government of the University.

According to the conditions of the agreement, the management of the DEPARTMENT OF PHARMACY rests with those best qualified to judge of its requirements, *i. e.*, *practical* pharmacists, to whom, also, is entrusted the responsible task of providing capable and practicable persons as instructors. It will be seen upon reference to the form of agreement, that the position of our school as a COLLEGE OF PHARMACY, is maintained in every respect.

Extract from the "Organic Act" of the University of California :

"SECTION 8. The Board of Regents may affiliate with the University, and make an integral part of the same, and incorporate therewith any incorporated college of medicine, or of law, or other special course of instruction now existing or which may hereafter be created, upon such terms as to the respective corporations may be deemed expedient; and such college or colleges thus affiliated, shall retain the control of their own property, with their own Board of Trustees, and their own Faculties and Presidents of the same, respectively, and the students of those colleges, recommended by the respective Faculties thereof, shall receive from the University, the degrees of those colleges, *provided*, however, that the President of the University shall be, *ex officio*, a member of the Faculty of each and every college of the University, and President of such Faculty."

Extract from the "Organic Act" of the University of California :

"SEC. 13. The immediate government and discipline of the several colleges, shall be entrusted to their separate Faculties and the resident professors of the same, each of which shall have its own organization, regulate the affairs of its own college, etc., etc." \* \* \*

### AGREEMENT.

"In accordance with the Organic Act of the University of California, the California College of Pharmacy is hereby affiliated with the University, upon the following basis :

"The College will maintain its own Board of Trustees, and will continue to hold its own property as if this affiliation had not been agreed upon.

"The College will also appoint its own professors and establish its own course of instruction, subject to the general approbation of the Regents of the University.

"The University will confer the degree of Graduate in Pharmacy, upon candidates recommended by the Board of Examiners of the College, and approved by a committee to be designated by the Regents.

"This agreement may be canceled by mutual consent, at any time, or by the withdrawal of either party to it, after twelve months' notice to the other party."

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1875.

OFFICERS OF THE COLLEGE.

PRESIDENT :

WM. T. WENZELL.

VICE-PRESIDENT :

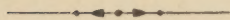
JOHN CALVERT.

SECRETARY :

EMLen PAINTER.

TREASURER :

WM. GEARY.



BOARD OF TRUSTEES.

WM. GEARY,

JOHN CALVERT,

WM. T. WENZELL,

WM. M. SEARBY,

G. G. BURNETT,

EMLen PAINTER.

## FACULTY.

PRESIDENT :

DANIEL C. GILMAN, M. A., Pres. Univ. Cal.

JOHN CALVERT,

PROFESSOR OF PHARMACY.

WM. M. SEARBY,

PROFESSOR OF MATERIA MEDICA.

WM. T. WENZELL,

PROFESSOR OF CHEMISTRY.

HERMANN BEHR, M. D.,

PROFESSOR OF BOTANY.

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## TEXT BOOKS.

U. S. Dispensatory and U. S. Pharmacopœia.

Pereira's Materia Medica.—Ed. by H. C. Wood.

Fownes' Chemistry.

Attfield's Chemistry.

Roscoe's Chemistry.

Gray's Botany.

## COLLEGE OF PHARMACY.

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The California College of Pharmacy has entered on the third year of its existence, and the Trustees have to congratulate the members and students on the progress which has been made during the past session.

The reports of the officers show that the institution is in a very satisfactory condition. The several chairs of instruction are filled by able, practical men, with ample experience in the different departments over which they preside.

The class of 1874 consisted of twenty-three students. The attendance was good, and the interest manifested was creditable to the students, as well as gratifying to the Professors.

In presenting this Circular to the Pharmacists of the Pacific Coast, the Board of Trustees would remind them that Pharmaceutical Education is a matter in which they are all interested. The future status of our body depends on the success which attends our present efforts. The public sentiment of to-day demands a higher degree of proficiency in our calling than is found in the generality of our Drug stores. To command the respect and confidence of the community, our young men must qualify themselves for the position they assume to fill; and the Trustees appeal to the Apothecaries of the Pacific States to give their countenance and good will to the College, which is now providing facilities for our young men to acquire a theoretical and practical knowledge of our profession. And they further urge upon all who can make the necessary arrangements, to afford their clerks and apprentices an opportunity of attending the Lectures, as well as a short time each day for study. The Trustees believe that employers will, in most cases, be amply compensated for the small sacrifice thus made, by the increased efficiency and devotedness of their employes.

As yet, no rule for a preliminary examination (before matriculation) has been adopted by the College, but as the time is not distant when

pharmaceutical examinations will be the rule, the Trustees would urge on Pharmacists the desirability of taking for apprentices such youths only as have had the advantage of a liberal education. If a knowledge of the elements of Latin have not been acquired, the candidate should lose no time in making himself sufficiently familiar with that language to enable him to read prescriptions and pharmacopœias.

And the Trustees further wish it to be made known that the students cannot reap the full benefit of the lectures, nor acquit themselves creditably at the examinations of this College without such necessary education.

Legislative enactments relating to Pharmacy have been in force for several years in the cities of New York, Philadelphia, Baltimore, Boston, St. Louis and San Francisco, which compel all persons commencing business to show that they are properly qualified.

The College is now permanently located in Toland Hall, a fine building belonging to the University of California. The accommodations, consisting of Lecture-room, Laboratory, Library and Museum, are abundant for our present wants, and well adapted to the purposes of the College.

The plan of instruction for the coming session will embrace the branches of Chemistry, Pharmacy, Botany and Materia Medica. It is the design of the Trustees to furnish such a course as will give the students a knowledge of the general principles of the sciences taught, and show their special and practical application to pharmaceutical requirements.

The professors will assist the students in their studies by occasional reviews of the ground gone over, thus giving opportunity for the correction of misapprehensions and erroneous conclusions, and stimulating them to exertion by setting up a generous emulation. The experience of the past has shown that in this way the interest of the students is greatly increased, and many of their difficulties are removed.

### LECTURE TERM.

The regular term for 1875 will commence on Tuesday, March 10th, and terminate in September. In order that students may derive full benefit from the lectures, they should be present at the opening of the session.

The lectures will be given on *Tuesday* and *Friday* evenings of each week, at TOLAND HALL, Stockton street, between Chestnut and Francisco streets.



## PHARMACY.

The lectures will be delivered on Tuesday of each week at 7.30 P. M.

The principal subjects are as follows: Weights and measures of the U. S. and British Pharmacopœias and the metrical system. Specific gravity, thermometers, drug powdering, sifting, solution, filtration, maceration, percolation, re-percolation, evaporation, distillation.

The Galenical and Chemical preparations of the U. S. Pharmacopœia. Extemporaneous pharmacy, including construction of formulas, the art of combining medicinal agents, pills, mixtures, ointments, suppositories, plasters, etc.

## CHEMISTRY.

The lectures will be delivered on Friday of each week at 7.30 P. M.

This course will present a systematic study of theoretical chemistry, according to the latest views of chemical philosophers.

Physics will be dwelt upon sufficiently for the illustration of the general properties of matter—the forces of gravitation, adhesion, and cohesion.

Caloric in its relation to chemistry will be treated of.

This will be followed by the laws of chemical affinity, the electro-chemical theory, symbols, nomenclature, and the laws of chemical combination. The molecular theory and the principals of crystallography will be fully illustrated, the former by graphic symbols and diagrams, the latter by models.

A full and concise course of the chemistry of the non-metallic and metallic bodies is next taken up, comprising the more important elements, and those of special interest to the pharmacal student.

The course to conclude with organic chemistry, in which the chemistry of the alcohols, ethers, organic acids, sugars, glucose, gums, starch, glucosides, alkaloids, &c. will receive their due share of attention.

## MATERIA MEDICA.

The lectures will be delivered on Tuesday of each week at 8.30 P. M.

The lectures on Materia Medica are devoted to those substances, chiefly of vegetable origin, which are used in medicine, and which are included under the general designation of *drugs*.

These articles are treated of in a systematic manner, notice being taken of the sources from which they are derived, their natural and commercial history, principal constituents and remedial qualities. The ordinary and toxical doses, with antidotes to the latter, receive careful consideration.

The students are instructed as to the proper time for collecting the various vegetable products, as well as the best modes of preserving them. Attention is called to their physical properties as met with in trade, and to the leading characteristics of each drug. Substitutions, adulterations, and natural impurities, with the methods of detecting the same, are duly considered, as also the distinguishing features observed in articles of superior and inferior quality.

## BOTANY.

Friday evening of each week at 8.30 P. M. at Toland Hall, and on Monday of each week at 1 P. M. at the hall of Academy of Sciences. The lectures include structural, functional and systematic botany, and geography of plants. Excursions are made into the country on alternate weeks during the session, for the purpose of collecting and studying indigenous plants, under the direction of the Professor.

## CONDITIONS OF GRADUATION.

1. The candidate must be of good moral character, and have attained the age of twenty-one years.
2. He must have attended two full courses of the lectures given by this College, or one of those given by some other College of Pharmacy whose conditions of graduation are based upon the like term of service, and the final course in this college.
3. Written evidence of the four years service required by the Constitution, must be deposited with the Secretary of the College upon applying for examination.
4. He shall at the same time deposit with the same officer, an original dissertation upon some article of the *Materia Medica*, some Pharmaceutical Process, or the details of an analysis of some chemical substance which must have been performed by himself. This manuscript must be in his own handwriting, and be executed in a neat and legible manner.
5. He must be recommended jointly by the Professors and the Examining Board.

6. Such recommendation must be approved by the Board of Trustees.
7. Examinations shall only take place at the close of each course.

### FEES.

Lecture Ticket (for the season) .....	\$50.00
Matriculation Ticket (paid only once).....	2.50
Diploma Fee.....	10.00

The matriculation and lecture tickets must be obtained of the Secretary at the beginning of the session.

Members and graduates of the College, and students who have attended two sessions in the college, are admitted free to the lectures.

Medical students, or others not intending to pursue pharmacy as their avocation, will be admitted to the lectures, or any one of the courses they may desire to attend, by paying the matriculation fee, and that of the chair or chairs of instruction, and such students will enjoy the same advantages as regular students of pharmacy, except that they will not be eligible to the degree of graduate in pharmacy.

### CLERKS AND STUDENTS.

Drug clerks and students on coming to the city, and those out of employment here, who are desirous of obtaining situations, may call upon the Secretary and register their names.

Young men coming to the city to attend lectures, should bear in mind that they cannot expect to receive much compensation whilst attending lectures and learning the business.

Pharmacists in want of assistants are informed that they can consult the list of applicants for situations, and are requested to notify the Secretary when vacancies occur in their establishments.

Any further information may be obtained by addressing

EMLEN PAINTER,  
SEC'Y CAL. COLLEGE OF PHARMACY,  
S. E. cor. Clay and Kearny Streets,  
San Francisco.

## CLASS OF 1874.

NAMES.	NATIVITY.	PRECEPTORS.
ANTHES, JOHN	San Francisco.	H. B. SHAW.
BACON, GASTON E.	Paris, France.	PAINTER & CALVERT.
BASFORD, W. L.	San Francisco.	H. P. WAKELEE.
BUSWELL, E. G.	Troy, N. Y.	REDINGTON, HOSTETTER & Co.
CLINTON, C. A.	Dublin, Ireland.	
DONOVAN, JOS.	New Bedford, Mass.	J. G. STEELE.
EVANS, THOS. A.	Bristol, Eng.	A. EVANS.
GIBSON, JOHN B.	Philadelphia, Pa.	REDINGTON, HOSTETTER & co.
GOLDMAN, B.	Bavaria.	
GRAHAM, T. D.	Liverpool, Eng.	G. G. BURNETT.
HARRIS, H. R.	Santa Clara, Cal.	J. W. ANGELL.
HEANEY, JOHN	Philadelphia, Pa.	W. T. WENZELL.
HOWELL, JOSEPH	New York.	CHAS. LANGLEY & Co.
KAHN, ADOLPHE	Brooklyn, N. Y.	ALFRED GROS.
LANE, J. H.	Plymouth, Eng.	WM. SIMPSON.
MEYER, F. H.	Baden, Germany.	P. GREICHTEN.
MEYER, R.	New York.	E. ABRAMSON.
McLEAN, F. P.	Lebanon, N. H.	JUDSON & Co.
PRICE, W. E.	Kingston, Can.	PAINTER & CALVERT.
SEVERIO, FRANK	Tuolumne Co. Cal.	W. E. MAYHEW.
SPROUL, W. E.	Maine.	A. M. KURTZ.
TIBBETTS, L. C.	Pillsbury, Pa.	J. R. GATES & Co.
YOUNG, JOHN M.	Montreal, Can.	W. M. SEARBY.



# APPENDIX.

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## AN ACT

TO REGULATE THE PRACTICE OF PHARMACY IN THE CITY AND COUNTY OF SAN FRANCISCO. PASSED BY THE CALIFORNIA LEGISLATURE, SESSION OF 1871-2, AND APPROVED MARCH 28, 1872.

*The People of the State of California, Represented in Senate and Assembly do enact as follows :*

SECTION ONE. From and after the first day of June, A. D. eighteen hundred and seventy-two, it shall be unlawful for any person, unless a registered pharmacist or a registered assistant pharmacist within the meaning of this Act, to open or conduct any pharmacy or store for retailing, dispensing, or compounding medicines or poisons, except as hereinafter provided.

SEC. TWO. Any person in order to be registered must be either a graduate in pharmacy, a licentiate in pharmacy, a practicing pharmacist, or a practicing assistant pharmacist.

SEC. THREE. Graduates in pharmacy must be such as have had four years experience in stores where prescriptions of medical practitioners are compounded, and each must have obtained a diploma from a college of pharmacy within the United States, or from an authorized foreign institution or Examining Board. Licentiates in pharmacy are such as have had four years experience in stores where prescriptions of medical practitioners are compounded, and shall have passed an examination before the Board of Pharmacy; also such foreign pharmacists as shall present satisfactory credentials or certificates of their attainments to the Board of Pharmacy. Practicing pharmacists are such persons only as at or prior to the passage of this Act have kept and continue to keep open stores in the City and County of San Francisco for compounding and dispensing of the prescriptions of medical practitioners, and for the sale of medicines and poisons. Practicing assistants in pharmacy are such persons of not less than eighteen years of age as at or prior to the passage of this Act have had two years experience in the compounding of the prescriptions of medical practitioners in the store of a practicing pharmacist, and shall furnish satisfactory

evidence of the same to the Board of Pharmacy. Persons of less than eighteen years of age, or less than four years experience, are as junior assistants or apprentices to be under the immediate supervision of a registered pharmacist or assistant pharmacist until they have become graduates or licentiates in pharmacy.

SEC. FOUR. The members of the California Pharmaceutical Society residing in San Francisco shall, during the month of May, eighteen hundred and seventy-two, and every third year thereafter, during the month of May, elect five of the most competent pharmacists of San Francisco to serve as a Board of Pharmacy. The members of this Board shall, within thirty days after their appointment, individually take and subscribe before the County Clerk, an oath, faithfully and impartially to discharge the duties prescribed by this Act. They shall hold office for the term of three years, and until their successors are appointed and qualified, and in each case of vacancy the said Board of Examiners shall select from three nominees elected at a meeting of the said Society. The Board shall organize for the transaction of business in the City of San Francisco by the election for the whole term of President and Secretary. Three members of the Board shall constitute a quorum. They shall meet at least quarterly, and have power to make by-laws for the proper fulfillment of their duties. The duties of this Board shall be to transact all business pertaining to the legal regulations of the practice of pharmacy and the retailing of poisons, and to examine and register all pharmacists. All persons applying for examination shall pay to the Secretary a fee of five dollars; and on passing the examination, shall be furnished with a certificate signed by the President and the Examiners.

SEC. FIVE. It shall be the duty of the Secretary to keep a book of registration open at some convenient place, of which due notice shall be given through the public press, in which shall be entered, under the supervision of the Board, the names, titles, qualifications, and places of business of all persons coming under the provisions of this Act; and it shall be the duty of all such persons to appear before the Board or its Secretary within a period of thirty days after its organization, and be registered. The fee for the first registration of graduates, licentiates, and practicing pharmacists, shall be two dollars; for assistants, one dollar. It shall be the duty of every person registered to have his registration renewed every year in the month of January, the fee for which shall be one dollar, and upon changing his place of business or engagement, to notify the Secretary within thirty days. The Secretary shall make all necessary alterations in the register, and notify all persons, on or before the tenth day of February, who shall not have renewed their registration, for which notification the Secretary shall receive a fee of fifty cents; and in case no answer is received within fourteen days, such name shall be erased, unless an excuse satisfactory to the Board be presented: *provided, always*, that the said name shall be restored on payment of fifty dollars to the Secretary of the Board within one year. The Secretary shall give receipts for all moneys received by him, and pay said moneys to the Treasurer of the California Pharmaceutical Society, taking his receipt therefor. The salary of the Board of Pharmacy and of the Secretary, shall

be fixed by the Board of Directors of the California Pharmaceutical Society, to be paid out of the registration fees and fines.

SEC. SIX. From and after the first day of June, eighteen hundred and seventy-two, every registered pharmacist who shall knowingly, intentionally, and fraudulently adulterate or cause to be adulterated, any drugs, chemicals, or medicinal preparation, shall be held guilty of a misdemeanor, and on conviction, shall be fined fifty dollars in the first, one hundred dollars in the second, and on conviction in the third case, his name shall be erased from the register.

SEC. SEVEN. *And be it further enacted,* That on and after the first day of June, eighteen hundred and seventy-two, it shall be unlawful for any person in the City and County of San Francisco, to retail any poisons enumerated in Schedules "A" and "B," appended to this Act, without distinctly labeling the bottle, box, vessel, or paper, and wrapper, or cover in which said poison is contained, with the name of the article, the word "Poison," and the name and place of business of the seller. Nor shall it be lawful for any person to sell or deliver any poison enumerated in Schedules "A" and "B" to any person, unless on due inquiry it is found that the person is aware of its poisonous character, and that it is to be used for a legitimate purpose. Nor shall it be lawful for any person to sell or deliver any poison included in Schedule "A," without, before delivering to the buyer, making or causing to be made an entry in a book kept for that purpose only, stating the date of sale, the name and address of the purchaser, the name and quantity of the poison sold, the purpose for which it is stated by the purchaser to be required, and the name of the dispenser; said book to be always open for inspection by the proper authorities, and to be preserved for at least five years. The provisions of this section shall not apply to the dispensing of poisons (in not unusual doses or quantities) upon the prescriptions of practitioners of medicine.

SEC. EIGHT. Be it provided that nothing contained in the foregoing section shall apply to, or interfere with the business of any practitioner of medicine who does not keep open shop for the dispensing and retailing of medicines and poisons, nor with the business of wholesale dealers.

SEC. NINE. Any person who shall attempt to procure registration for himself or for any other person under this Act, by making or causing to be made, any false representations, shall be deemed guilty of a misdemeanor, and shall, upon conviction thereof, be fined in a sum not exceeding five hundred dollars. Any registered pharmacist who shall permit the compounding and dispensing of prescriptions of medical practitioners in his store by persons not registered, except by junior assistants under the direct supervision of registered persons, or any person not registered who shall keep open shop for the retailing or dispensing of medicines and poisons, or who shall fraudulently represent himself to be registered, and any registered person who shall fail to comply with the regulations of this Act in regard to the retailing and dispensing of poisons, shall for every such offense be deemed guilty of a misdemeanor, and on conviction thereof, be fined fifty dollars.



SEC. TEN. All persons registered under this Act shall be exempt and free from all jury duty in the City and County of San Francisco.

SEC. ELEVEN. All Acts and parts of Acts in conflict with the provisions of this Act, in so far as they so conflict are hereby repealed.

#### SCHEDULE "A."

Arsenic and its preparations, corrosive sublimate, white precipitate, red precipitate, biniodide of mercury, cyanide of potassium, hydrocyanic acid, strychnia, and all other poisonous vegetable alkaloids and their salts, essential oil of bitter almonds, opium and its preparations, except paregoric and other preparations of opium containing less than two grains to the ounce.

#### SCHEDULE "B."

Aconite, belladonna, colchicum, conium, nux vomica, henbane, savin, ergot, cotton root, cantharides, digitalis, and their pharmaceutical preparations, croton oil, choloroform, chloral hydrate, sulphate of zinc, sugar of lead, mineral acids, carbolic acid, and oxalic acid.

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### BOARD OF PHARMACY.

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JOHN CALVERT, President.

W. T. WENZELL, Secretary.

WM. SIMPSON,

MAX TSCHIRNER,

J. G. STEELE.

Books for registration will be open after June 1st, 1872, at the office of the Secretary, corner of Stockton and Market streets, San Francisco.





